PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 924 (EMMORTON RD.) AND ABINGDON RD./SINGER RD. IN HARFORD COUNTY. THE WORK IS NECESSITATED BY THE WIDENING OF THE ABINGDON RD. AND SINGER RD. MD 924 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR ALL APPROACHES OF THE INTERSECTION. THIS OPERATION WILL NOT CHANGE

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY

NONE

DESCRIPTION

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR, ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION		
LS	MAINTENANCE OF TRAFFIC		
1 CY	TEST PIT EXCAVATION		
80 LF	24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS		
9 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW		
20 EA	12 IN. L.E.D. SIGNAL HEAD SECTION		
6 EA	8 IN. L.E.D. SIGNAL HEAD SECTION		
3 CY	CONCRETE FOUNDATION FOR SIGNAL		
1 EA	27 FT. MAST ARM POLE & TWIN 50 FT. MAST ARMS		
1 EA	ELECTRICAL HANDHOLE		
150 LF	4 IN SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- SLOTTED		
1 LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT		
2 EA	VIDEO DETECTION CAMERA AND CABLE		

56 LF WOOD SIGN SUPPORTS 4 IN. X 4 IN. 100 LF WOOD SIGN SUPPORTS 4 IN. X 6 IN. 40 LF ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.) 590 LF ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.) 130 LF ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.) 85 LF STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

1 EA 3/4 IN. X 10 FT. GROUND ROD D-3(1) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT

SHIELD ASSEMBLY (48" X 72") - POLE MOUNT R3-5L (30" X 36") SIGN - MAST ARM MOUNT 4 EA OM1-3 (18" X 18") SIGN - GROUND MOUNT 2 **EA** R3-7(2)R (30" X 42") SIGN - MAST ARM MOUNT 4 EA R3-9B (30" X 36") SIGN - GROUND MOUNT

140 LF OPTICOM DETECTOR CABLE, 4 - CONDUCTOR 1 EA OPTICOM DETECTOR EYE W/MAST ARM MOUNTED HARDWARE, 721 1 EA NON-INVASIVE MICRO-LOOP PROBE AND LEAD-IN

1 EA 15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE

EQUIPMENT LIST "C"

WIRING KEY

(NO. 14 A.W.G.)

(NO. 14 A.W.G.)

4-CONDUCTOR

GROUND ROD

MICRO-LOOP PROBE

MICRO-LOOP PROBE LEAD-IN

5-CONDUCTOR ELECTRICAL CABLE

7-CONDUCTOR ELECTRICAL CABLE

(NO. 12 A.W.G.) TRAY CABLE

VIDEO DETECTION CABLE

OPTICOM DETECTOR CABLE,

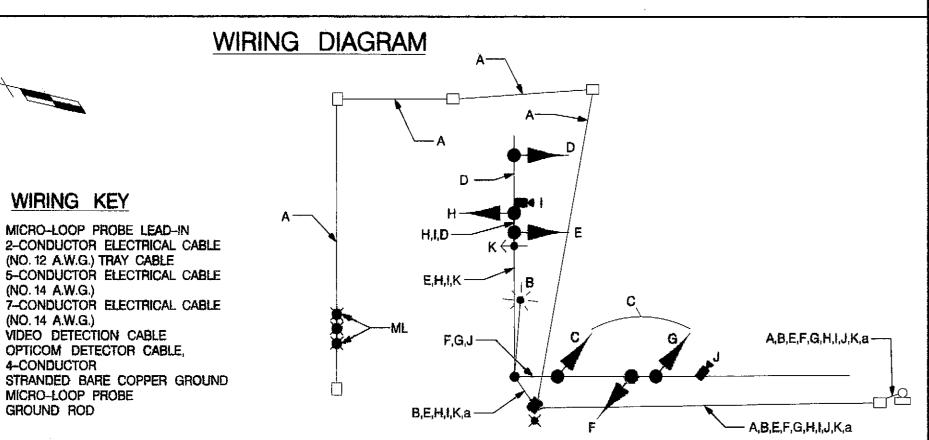
DESCRIPTION

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

QUANTITY

NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASE 1 & 5 PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6 1 & 5 CHANGE PHASE 1 & 6 G R R R R R R R R R R 1 CHANGE PHASE 2 & 5 5 CHANGE R A G G G G R R R R R R R R PHASE 2 & 6 2 & 6 CHANGE Y Y Y Y R R R R R R PHASE 3 & 7 3 & 7 CHANGE PHASE 3 & 7 MAY CHANGE TO PHASE 3 & 8,4 & 7, OR 4 & 8 PHASE 3 & 8 $R \mid R \mid R \mid R \mid_{\bullet \longrightarrow Y} \stackrel{G}{=} \mid_{\bullet \longrightarrow Y} = G \mid R \mid R \mid R$ 3 CHANGE PHASE 4 & 7 7 CHANGE PHASE 4 & 8 4 & 8 CHANGE FLASHING **OPERATION**

EMERGENCY PRE-EMPTION 'C' R R R R R R R R R $\frac{G}{4-G}$ G

LIMIT OF MILLING AND RESURFACING

RIGHT-OF-WAY LINE

PRE-EMPTION CHANGE

PRE-EMPTION CHANGE

PRE-EMPTION CHANGE

EMERGENCY PRE-EMPTION 'B' R R

PHASE CHART

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MRS. ERIN KUHN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 229-2380

ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 229-2361

MR. MICHAEL PASQUARIELLO UTILITY ENGINEER (410) 229-2341

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

CHIEF, TRAFFIC OPERATIONS (410) 787-7630

MR. ROBERT SNYDER TRAFFIC OPERATIONS

MR. ED RODENHIZER CHIEF - SIGNAL OPERATIONS SECTION

(410) 787-7676 MR. MIKE STOCKER SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

TEAM LEADER SIGN OPERATIONS

MR. EUGENE BAILEY

SINGER RD. RIGHT-OF-WAY LINE TWO-WAY LEFT TURN LANE SIGNING AND MARKING LOCATION TABLE TRAFFIC CONTROL DISTANCE FROM DEVICE STOPLINE END SOLID P.M. LINE / EASTBOUND SINGER RD. BEGIN SKIP LINE E.B. LEFT ARROW SIGNING AND MARKING END SKIP LINE LOCATION TABLE W.B. R3-9(B) SIGN TRAFFIC CONTROL DEVICE DISTANCE FROM BEGIN TWO-WAY LEFT TURN LANE STOPLINE W.B. LEFT ARROW RIGHT ARROW E.B. LEFT ARROW 175' 342' R3-7(2)R SIGN END TWO-WAY LEFT TURN LANE 420' END SKIP LINE E.B. R3-9(B) SIGN 420' W.B. LEFT ARROW 470'

SHA TRACKING NO. 11-AP-HA-015

W.B. BEGIN SKIP LINE W.B. END SKIP LINE /

BEGIN SOLID LINE

470'

500'

SHEET NO. 2 OF 2

STATE HIGHWAY ADMINISTRATION

DRAWING NO. TS 1904K-GI

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 924 (EMMORTON RD.) AND

TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite B Gambrills, MD 21054 (410) 923-7101

FOR SIGNING AND CONSTRUCTION DETAILS LEGENDS SEE TRAFFIC SIGNALIZATION PLAN (SHEET 1 OF 2)

FAX: (410) 923-6473 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

DATE: Tuesday, February 05, 2013 AT 11:48 AM

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION

ABINGDON, MARYLAND CENEDAL INFODMATION DIANI

GENERAL INFORMATION PLAN				
SCALE NO	NE DATE	11-29-2012	CONTRACT NO. BW996M82	
DESIGNED BY	T.ZAYDEL	COUNTY	HARFORD	
DRAWN BY	T. ZAYDEŁ	LOGMILE	12092401.01	
CHECKED BY	K, SCHMID	T.I.M.S. NO	D L364	
F.A.P. NO.	N/A	TOD NO.		
				

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